

Message

From: Voigt, Gregory [Voigt.Gregory@epa.gov]
Sent: 12/19/2022 5:37:59 PM
To: Smith, Michael (Energy) [Michael.Smith@energy.virginia.gov]; Geiger, Ashley [Geiger.Ashley@epa.gov]; Vicenty-Gonzalez, Juan [VicentyGonzalez.Juan@epa.gov]
CC: Banas, Anthony (Energy) [Max.Banas@energy.virginia.gov]; Worley, Jared (Energy) [Jared.Worley@energy.virginia.gov]
Subject: RE: Underdrain data for Callahan Creek watershed

Sounds good, Mike. Thanks for the update.



Gregory Voigt
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Philadelphia, PA 19103-2852
Phone 215-814-5737

From: Smith, Michael (Energy) <Michael.Smith@energy.virginia.gov>
Sent: Friday, December 16, 2022 6:32 AM
To: Voigt, Gregory <Voigt.Gregory@epa.gov>; Geiger, Ashley <Geiger.Ashley@epa.gov>; Vicenty-Gonzalez, Juan <VicentyGonzalez.Juan@epa.gov>
Cc: Banas, Anthony (Energy) <Max.Banas@energy.virginia.gov>; Worley, Jared (Energy) <Jared.Worley@energy.virginia.gov>
Subject: RE: Underdrain data for Callahan Creek watershed

I was checking the field relationships between deleted underdrains and the NPDES discharges that are actively monitored. In our database there is no direct correlation between underdrains and the ponds which control the discharges. Additionally, sediment control structures and their monitored discharges may be built down stream of a pre-existing fill underdrain that has been deleted, but the flow from the underdrain is routed through the sediment control structure and its loading measured at the discharge. In such a case, the loading from the abandoned underdrain would be accounted for in the waste load calculated at the monitored discharge. It has become obvious that this exercise will not be a simple database data query. We face a similar effort in determining what pre-SMCRA mining areas have been reclaimed by subsequent re-mining. Please refrain from making any conclusions regarding the submitted data until I can get the field relationships sorted out; which will have to be after the Christmas holiday. Thank you for your patience.

Regards,

Michael Smith, P.G. | Hydrogeologist/Compliance Data Manager
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From: Voigt, Gregory <Voigt.Gregory@epa.gov>
Sent: Thursday, December 15, 2022 10:45 AM
To: Smith, Michael (Energy) <Michael.Smith@energy.virginia.gov>; Geiger, Ashley <Geiger.Ashley@epa.gov>; Vicenty-Gonzalez, Juan <VicentyGonzalez.Juan@epa.gov>
Cc: Banas, Anthony (Energy) <Max.Banas@energy.virginia.gov>; Worley, Jared (Energy) <Jared.Worley@energy.virginia.gov>
Subject: RE: Underdrain data for Callahan Creek watershed

Thanks for the update, Mike. We'll use this latest version for our review.



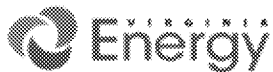
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From: Smith, Michael (Energy) <Michael.Smith@energy.virginia.gov>
Sent: Thursday, December 15, 2022 6:53 AM
To: Voigt, Gregory <Voigt.Gregory@epa.gov>; Geiger, Ashley <Geiger.Ashley@epa.gov>; Vicenty-Gonzalez, Juan <VicentyGonzalez.Juan@epa.gov>
Cc: Banas, Anthony (Energy) <Max.Banas@energy.virginia.gov>; Worley, Jared (Energy) <Jared.Worley@energy.virginia.gov>
Subject: RE: Underdrain data for Callahan Creek watershed

Please accept my apologies, delete the first monitoring data file I sent yesterday at 5:44 pm and replace it with the attached data file. The file I sent last evening contained duplicate records for individual underdrains because I included the permit number in the query that I ran. As some of the permits were transferred up to five different times, some records had up to five duplicate records for each monitoring event. Such duplication would render a much larger waste load than is actually present. Again, I apologize for the error. Please contact me for clarification or further information.

Regards,

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From: Voigt, Gregory <Voigt.Gregory@epa.gov>
Sent: Wednesday, December 14, 2022 8:33 PM
To: Smith, Michael (Energy) <Michael.Smith@energy.virginia.gov>; Geiger, Ashley <Geiger.Ashley@epa.gov>; Vicenty-Gonzalez, Juan <VicentyGonzalez.Juan@epa.gov>
Cc: Banas, Anthony (Energy) <Max.Banas@energy.virginia.gov>; Worley, Jared (Energy)

<Jared.Worley@energy.virginia.gov>

Subject: RE: Underdrain data for Callahan Creek watershed

Thanks for supplying us with this information, as well as the wasteload report from 2009, Mike. We appreciate your efforts to get this to us so quickly and will be in touch if we have any further questions.



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From: Smith, Michael (Energy) <Michael.Smith@energy.virginia.gov>

Sent: Wednesday, December 14, 2022 5:44 PM

To: Voigt, Gregory <Voigt.Gregory@epa.gov>; Geiger, Ashley <Geiger.Ashley@epa.gov>; Vicenty-Gonzalez, Juan <VicentyGonzalez.Juan@epa.gov>

Cc: Banas, Anthony (Energy) <Max.Banas@energy.virginia.gov>; Worley, Jared (Energy) <Jared.Worley@energy.virginia.gov>

Subject: Underdrain data for Callahan Creek watershed

Please find attached the data file for underdrains in the Callahan Creek TMDL watershed that were added after 2003 and have been deleted to date. The TMDL report states the data used for TDS modeling was 2001 through 2003 hence the exclusion of underdrain locations removed from monitoring prior to 2003 as they would be included in the modeled waste loads. There are two spread sheets, the one labeled "UD post TMDL 2003" contains information about each monitoring location including coordinates in NAD83 Virginia South State Plane coordinates. The second sheet labeled "Discharge data" is self-explanatory and contains the complete record of monitoring for the location. You will find that some fill underdrains do not discharge or discharge infrequently because we encourage placement of fills in ephemeral portions of valleys. The data are reported in mg/L except for pH which are standard units. The data columns are as follows:

PeNo – SMCRA permit number
MpGwNo – Discharge identification number
WtDate – Sample collection date
WtFlow – Estimated flow in gallons per minute
WtPh – pH in standard units
WtIron – Total iron concentration in mg/L
WtManganese – Total manganese in mg/L
WtTss – Total suspended solids in mg/L
WtTds – Total dissolved solids in mg/L
WtSulf – Sulfate concentration in mg/L

Please feel free to contact me if you have questions or need additional information. I will be on leave for the next two weeks, but I will check e-mail periodically and my phone is forwarded to my home number .

Regards,

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